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Claims

1. A method of feeding water to the heat transfer surfaces of a falling film evaporator having vertical evaporation channels, by distributing the water as a spray of drops to the beginning of the heat transfer surfaces, characterised in that water soluble, essentially atmospheric gases are simultaneously separated from the water.
2. An apparatus for removing dissolved gases from water to be evaporated in connection with a falling film evaporator, which apparatus comprises vertical evaporating channels and at least one spraying device (3) for breaking the heated feed-water into a spray of droplets having a hit pattern substantially corresponding to the area of the upper end (4) of the evaporator channel arrangement, characterised in that it comprises at least one outlet (5) for the removal of gases separating from the droplets.
3. An apparatus as defined in claim 2, characterised in that it comprises a trough having a perforated bottom and lying above the upper end (4) of the evaporator channel arrangement.
4. An apparatus as defined in claim 2 or 3, characterised in that it comprises a substantially hemispherical chamber, the end of the evaporator tube arrangement forming the plane side thereof.

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